

Serial No. 10/758,844
Attorney Docket No. 87159200.242005

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application. In this listing, claims 11 and 18-20 have been canceled without disclaimer of their subject matter, and claims 1-10 and 12-17 thus now are pending in this application.

1. (Currently Amended) A display system, comprising:

a light modulator;

an optical converter module coupled to the light modulator, wherein the optical converter module comprises

a plurality of converter units, wherein one or more of the plurality of converter units comprises:

one or more polarizing beam splitters configured to transmit a first polarized component of an input light and reflect a second polarized component of the input light;

at least one reflector coupled to the one or more polarizing beam splitters and configured to direct the second polarized component towards the light modulator; and

at least one retardation element coupled to one or more of the plurality of polarizing beam splitters and configured to rotate polarization of at least one of the first and second polarized components; and

at least one light-diffusing layer coupled to the plurality of converter units and configured to scatter towards the light modulator light outputted from the plurality of converter units in a direction

Serial No. 10/758,844
Attorney Docket No. 87159200.242005

substantially perpendicular to the light-diffusing layer.

2. (Original) A display system according to claim 1, wherein the at least one retardation element is a quarter-wave retardation film.

3. (Original) A display system according to claim 1, wherein the plurality of converter units are placed linearly parallel to one another in an array arrangement.

4. (Original) A display system according to claim 1, wherein the light modulator is a liquid crystal panel.

5. (Original) A display system according to claim 1, wherein the reflector is a polarizing beam splitter.

6. (Original) A display system according to claim 1, wherein the at least one retardation element is placed between the at least one reflector and the one or more polarizing beam splitters.

7. (Original) A display system according to claim 1, further comprising:
an illumination source coupled to the optical converter and configured to generate the input light.

8. (Original) A display system according to claim 7, wherein the illumination source is a backlight unit.

Serial No. 10/758,844
Attorney Docket No. 87159200.242005

9. (Original) A display system according to claim 1, wherein the optical converter module further comprises:

a plurality of lenses coupled to the plurality of converter units and configured to focus the input light towards the one or more polarizing beam splitters.

10. (Original) A display system according to claim 9, wherein the lenses are placed linearly parallel to one another in an array arrangement.

11. (Canceled)

12. (Currently Amended) An optical converter module for a display system comprising:
a plurality of converter units, wherein one or more of the plurality of converter units comprises:

one or more polarizing beam splitters configured to transmit a first polarized component of an input light and reflect a second polarized component of the input light;

at least one reflector coupled to the one or more polarizing beam splitters and

configured to direct the second polarized component; and

at least one retardation element coupled to one or more of the plurality of polarizing beam splitters and configured to rotate polarization of at least one of the first and second polarized components; and

at least one light-diffusing layer coupled to the plurality of converter units and

Serial No. 10/758,844

Attorney Docket No. 87159200.242005

configured to scatter light outputted from the plurality of converter units in
a direction substantially perpendicular to the light-diffusing layer.

13. (Original) An optical converter module according to claim 12, wherein the at least one retardation element is a quarter-wave retardation film.

14. (Original) An optical converter module according to claim 12, wherein the plurality of converter units are placed linearly parallel to one another in an array arrangement.

15. (Original) An optical converter module according to claim 12, wherein the reflector is a polarizing beam splitter.

16. (Original) An optical converter module according to claim 12, wherein the at least one retardation element is placed between the at least one reflector and the one or more polarizing beam splitters.

17. (Original) An optical converter module according to claim 12, further comprising:
a plurality of lenses coupled to the plurality of converter units and configured to focus the input light towards the one or more polarizing beam splitters.

18-20 (Canceled)